

Figure 1. - User Input and Verification

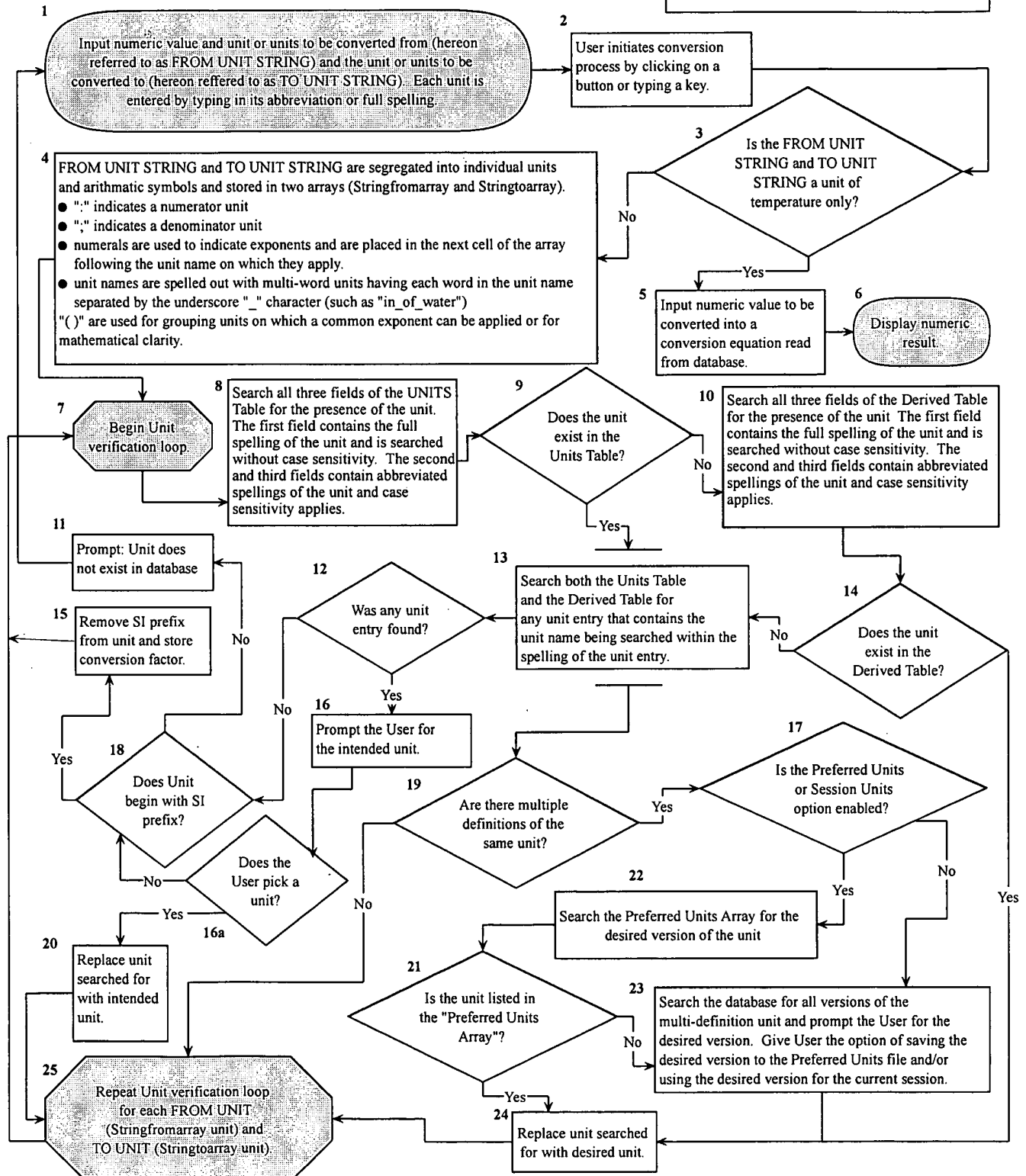


Figure 2. - Conversion Process

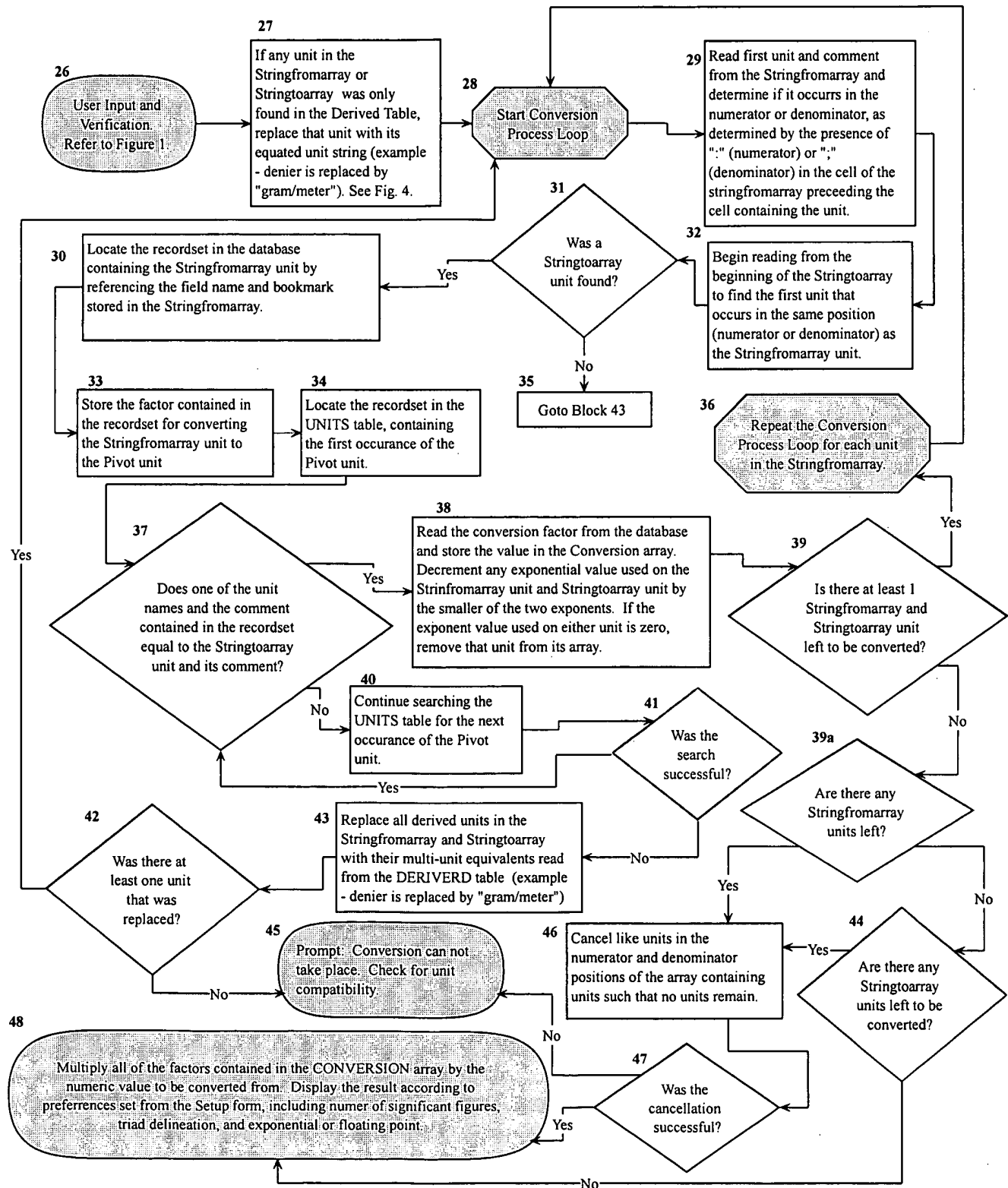
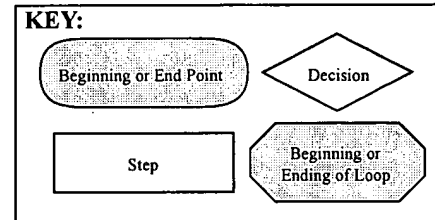


Figure 3. - Units Database, Partial View of  
The Units Table

Identify	Digit	User Added	Unit4	Unit2	Unit3	Pivot	Factor	Contin	Compuot	Note
632	20	<input type="checkbox"/>	A_turns	A_turn	a_turn	ampere	1		absolute	1 absolute ampere, the MKS (meter kilogram second) unit of magnetomotive force - the magnetic field generating ability of the current flowing through a coil of wire (electric current)
1	20	<input type="checkbox"/>	abampere	abA	abamp	ampere	10			10 absolute ampere also called the biot after J. B. Biot (1774-1862), definition is same as absolute ampere except the conductors are spaced 1 cm apart and the resulting force is 2 dynes per cm of
981	20	<input type="checkbox"/>	abampere_turn	abamp_turn	abA_turn	ampere	10		absolute	10 absolute ampere, the CGS (cm-gram-second) unit of magnetomotive force - the magnetic field generating ability of the current flowing through a coil of wire (electric current)
139	20	<input type="checkbox"/>	abampere_turns	abamp_turns	abA_turns	ampere	10		absolute	10 absolute ampere, the CGS (cm-gram-second) unit of magnetomotive force - the magnetic field generating ability of the current flowing through a coil of wire (electric current)
992	20	<input type="checkbox"/>	abamperes	abamps		ampere	10		absolute	10 absolute ampere also called the biot after J. B. Biot (1774-1862), definition is same as absolute ampere except the conductors are spaced 1 cm apart and the resulting force is 2 dynes per cm of
1157	20	<input type="checkbox"/>	abat			ampere	10		absolute	10 absolute ampere, the CGS (cm-gram-second) unit of magnetomotive force - the magnetic field generating ability of the current flowing through a coil of wire (electric current)
2	20	<input type="checkbox"/>	abcoulomb	abc		coulomb	10		SI	10 coulombs, 'ab' indicates the unit is part of the CGS (cm-gram-second) absolute electromagnetic system (electric charge)
993	20	<input type="checkbox"/>	abcoulombs			coulomb	10		SI	10 coulombs, 'ab' indicates the unit is part of the CGS (cm-gram-second) absolute electromagnetic system (electric charge)
3	20	<input type="checkbox"/>	abfarad	abF		farad	1000000000		SI	1 gigafarad, 'ab' indicates the unit is part of the CGS (cm-gram-second) absolute electromagnetic system (electric capacitance)
994	20	<input type="checkbox"/>	abfarads			farad	1000000000		SI	1 gigafarad, 'ab' indicates the unit is part of the CGS (cm-gram-second) absolute electromagnetic system (electric capacitance)

Figure 4. - Units Database, Partial View of  
The Derived Table

Identity	Digits	UserAdded	UnitDer1	UnitDer2	UnitDer3	Equated	Factor	Comment	Note
77	20	<input type="checkbox"/>	acoustic_ofm	acoustic_ohms	acoustic_ohms	(pascal*second)/meter^3	100000		equal to 100 kilopascal seconds/meter^3 (acoustic impedance)
138	8	<input type="checkbox"/>	amagat_density_unit	amagat	amagats	mole/meter^3	44.615769	density	(the amount of 1 cubic meter of gas at standard temperature and pressure, equal to approximately (UNITS TABLE)
24	20	<input type="checkbox"/>				second^-1	1		(UNITS TABLE)
146	20	<input type="checkbox"/>	bips	bps	BPS	byte/second	0.125		'bits per second' equal 0.125 bytes per second, typically used for measuring telecommunications data
133	4	<input type="checkbox"/>	Bohr_magneton	Bohr		Weber*meter	1.165E-25		the magnetic moment of a single spinning electron at ground state of the Hydrogen atom, named after
78	20	<input type="checkbox"/>	bole	boles	Boles	newton*second	0.00001		equal to 1E-5 newton seconds (momentum)
79	20	<input type="checkbox"/>	brewster	brewsters	Brewsters	meter^2/newton	1E-12		equal to 1E-12 meter^2/newton (compressibility)
141	20	<input type="checkbox"/>	calibre	calibre		meter/meter	1	Naval gun barrel length to bore ratio	used for Naval gun designation and is defined as the ratio of the guns barrel length to the guns bore
80	20	<input type="checkbox"/>	celo	celos	Celos	meter/second^2	0.3048		1 foot/s^2 (acceleration)
143	20	<input type="checkbox"/>	CFM			meter^3/second	0.0004719474432		1 cubic foot per minute, approximately 471.9 centimeter^3/second (flow rate)
82	20	<input type="checkbox"/>	clausius			joule/Kelvin	4186.8		a measure of the extent of which heat or energy is not available for performing work, named after
4	20	<input type="checkbox"/>	clo	clos		Kelvin*meter^2/Watt	0.155		a measure of the thermal insulating ability of clothing, 1 clo is the insulation required to keep a resting
1	20	<input type="checkbox"/>	coulomb			ampere*second	1	(Original Entry)	(UNITS TABLE)
144	20	<input type="checkbox"/>	count	counts	ct	liter/second	0.01478676478125	flow rate	flow restrictor used by bartenders to limit fluid flow to 0.5 fluid ounces per second. Counting "one